Selenium Frameworks:

POM:

package tutorial.selenium;

import java.util.concurrent.TimeUnit;

import org.junit.After;

import org.junit.Before;

import org.junit.Test;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.firefox.FirefoxDriver;

import page.classes.SearchPage;

public class PageObjectModel {

private WebDriver driver;

private String baseUrl;

@Before

public void setUp() throws Exception {

driver = new FirefoxDriver();

baseUrl = "https://www.expedia.com/";

// Maximize the browser's window

driver.manage().window().maximize();

driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);

}

@Test

public void test() {

driver.get(baseUrl);

SearchPage.fillOriginTextBox(driver, "New York");

SearchPage.destinationTextBox(driver).sendKeys("Chicago");

SearchPage.departureDateTextBox(driver).sendKeys("12/25/2014");

// Added a line to clear the return date text box

// before entering the return date, because Expedia by default

// enters the return date same as the departure date

SearchPage.returnDateTextBox(driver).clear();

SearchPage.returnDateTextBox(driver).sendKeys("12/31/2014");

SearchPage.clickOnSearchButton(driver);

}

@After

public void tearDown() throws Exception {

}

}

**Search Page:**

package page.classes;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

public class SearchPage {

public static WebElement element = null;

/\*\*

\* Returns the flight origin text box element

\* @param driver

\* @return

\*/

public static WebElement originTextBox(WebDriver driver) {

element = driver.findElement(By.id("flight-origin"));

return element;

}

public static void fillOriginTextBox(WebDriver driver, String origin) {

element = originTextBox(driver);

element.sendKeys(origin);

}

/\*\*

\* Returns the flight destination text box element

\* @param driver

\* @return

\*/

public static WebElement destinationTextBox(WebDriver driver) {

element = driver.findElement(By.id("flight-destination"));

return element;

}

/\*\*

\* Returns the departure date text box element

\* @param driver

\* @return

\*/

public static WebElement departureDateTextBox(WebDriver driver) {

element = driver.findElement(By.id("flight-departing"));

return element;

}

/\*\*

\* Returns the return date text box element

\* @param driver

\* @return

\*/

public static WebElement returnDateTextBox(WebDriver driver) {

element = driver.findElement(By.id("flight-returning"));

return element;

}

/\*\*

\* Returns the search button box element

\* @param driver

\* @return

\*/

public static WebElement searchButton(WebDriver driver) {

element = driver.findElement(By.id("search-button"));

return element;

}

/\*\*

\* Click on search button

\* @param driver

\*/

public static void clickOnSearchButton(WebDriver driver) {

element = searchButton(driver);

element.click();

}

/\*\*

\* Navigate to flights tab

\* @param driver

\*/

public static void navigateToFlightsTab(WebDriver driver) {

driver.findElement(By.id("header-history")).click();

element = driver.findElement(By.id("tab-flight-tab"));

element.click();

}

}

**Search Page Factory:**

package pageclasses;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.support.FindBy;

public class SearchPageFactory {

@FindBy(id="tab-flight-tab")

WebElement flightTab;

@FindBy(id="flight-type-roundtrip-label")

WebElement roundTrip;

@FindBy(id="flight-type-multi-dest-label")

WebElement multipleDestination;

public void clickFlightTab() {

flightTab.click();

}

public void clickroundTrip() {

roundTrip.click();

}

public void clickMultipleDestination() {

multipleDestination.click();

}

}

Framework Test case:

package tutorialselenium;

import java.util.concurrent.TimeUnit;

import org.junit.After;

import org.junit.Before;

import org.junit.Test;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.firefox.FirefoxDriver;

import pageclasses.SearchPageFactory;

public class FrameworkTestCase {

private WebDriver driver;

private String baseUrl;

SearchPageFactory searchPage;

@Before

public void beforeClass() {

driver = new FirefoxDriver();

baseUrl = "https://www.expedia.com/";

searchPage = new SearchPageFactory(driver);

// Maximize the browser's window

driver.manage().window().maximize();

driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);

driver.get(baseUrl);

}

@Test

public void test() throws Exception {

searchPage.clickFlightsTab();

searchPage.setOriginCity("New York");

searchPage.setDestinationCity("San Francisco");

searchPage.setDepartureDate("10/28/2015");

searchPage.setReturnDate("10/31/2015");

}

@After

public void afterClass() {

}

}

No Framework Test:

package tutorialselenium;

import java.util.concurrent.TimeUnit;

import org.junit.After;

import org.junit.Before;

import org.junit.Test;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.firefox.FirefoxDriver;

public class NoFrameworkTest {

private WebDriver driver;

private String baseUrl;

@Before

public void beforeClass() {

driver = new FirefoxDriver();

baseUrl = "https://www.expedia.com/";

// Maximize the browser's window

driver.manage().window().maximize();

driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);

driver.get(baseUrl);

}

@Test

public void test() {

driver.findElement(By.id("header-history")).click();

driver.findElement(By.id("tab-flight-tab")).click();

driver.findElement(By.id("flight-origin")).sendKeys("New York");

driver.findElement(By.id("flight-destination")).sendKeys("Chicago");

driver.findElement(By.id("flight-departing")).sendKeys("10/28/2014");

driver.findElement(By.id("flight-returning")).sendKeys("10/31/2014");

driver.findElement(By.id("search-button")).click();

}

@After

public void afterClass() {

}

}

Search Page Factory:

package pageclasses;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.support.FindBy;

import org.openqa.selenium.support.PageFactory;

public class SearchPageFactory {

WebDriver driver;

@FindBy(id="header-history")

WebElement headerHistory;

@FindBy(id="tab-flight-tab")

WebElement fligthsTab;

@FindBy(id="flight-origin")

WebElement originCity;

@FindBy(id="flight-destination")

WebElement destinationCity;

@FindBy(id="flight-departing")

WebElement departureDate;

@FindBy(id="flight-returning")

WebElement returnDate;

public SearchPageFactory(WebDriver driver) {

this.driver = driver;

PageFactory.initElements(driver, this);

}

public void clickFlightsTab() {

headerHistory.click();

fligthsTab.click();

}

public void setOriginCity(String origin) {

originCity.sendKeys(origin);

}

public void setDestinationCity(String destination) {

destinationCity.sendKeys(destination);

}

}